



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/648,384

08/27/2003

Tae-Wan Choi

RPL-0006REI

3800

34610 7590 07/10/2008

KED & ASSOCIATES, LLP

P.O. Box 221200

Chantilly, VA 20153-1200

EXAMINER

PUNNOOSE, ROY M

ART UNIT

PAPER NUMBER

2886

MAIL DATE

DELIVERY MODE

07/10/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/648,384	CHOI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Roy M. Punnoose	2886	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 21-46, 60-72 and 77-80 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 60-72 is/are allowed.
- 6) ☒ Claim(s) 21 and 24 is/are rejected.
- 7) ☐ Claim(s) 22, 23, 25-46 and 77-80 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 May 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☒ Certified copies of the priority documents have been received in Application No. 09/247,866.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>03/18/2008</u>  | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

***Response to Amendment***

1. Applicant's amendment filed on 05/27/2008 is acknowledged. The applicant has cancelled claims 1-20, 47-59, 73-76 and 81-84. Claims 21-46, 60-72 and 77-80 are pending in the application.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Yoshikawa et al (U.S. Patent 4,185,229).

4. Claim 21 is rejected because:

- A. In the specification of the instant application the applicant discloses a conventional plasma display panel (see col.1, lines 19-20 of U.S. Patent 6,281,628 B1 issued to the applicant), comprising, a plurality of row electrodes on a first substrate, at least one row electrode having a plurality of protrusions; and a plurality of column electrodes on a second substrate; and a plurality of cells formed between the first and second substrates (see col.1, lines 19-50 and Figures 1-3).
- B. However, the conventional plasma display panel lacks the teaching of at least two of the cells adjacent in the column direction use a same row electrode to emit light.

Art Unit: 2886

- C. Yoshikawa et al (Yoshikawa hereinafter) teaches of having common row electrode for adjacent cells (see col.2, lines 53-63, and specifically lines 61-63) in a plasma display panel.
- D. In view of Yoshikawa's teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Yoshikawa's teaching into prior art teachings to have at least two of the cells adjacent in the column direction or any other desired direction use a same row electrode to emit light so as to minimize the number of electrodes for ease of manufacturing and cost savings.

5. Claim 24 is rejected for the same reasons of rejection of claim 21 because the claimed limitation "same row electrode is located between said adjacent cells" is similar to that claimed in claim 21.

***Allowable Subject Matter***

6. Claims 22-23, 25-46 and 77-80 are objected to as being dependent upon a rejected base claim, but would be allowable if the rejection to the base claim and any intervening claims can be overcome.

7. Claims 60-72 are allowable because none of the prior art teach of a method of driving a PDP comprising the step of applying alternating voltages to the second row electrode to control sustain discharges in the first and second cells, wherein the first, second, and third row electrodes are on a first substrate and column electrodes in the first and second cells are on a second substrate, in combination with the rest of the limitations of the respective claims.

***Contact/Status Information***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Roy M. Punnoose** whose telephone number is **571-272-2427**.

The examiner can normally be reached on 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Tarifur Chowdhury** can be reached on **571-272-2287**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**/Roy M. Punnoose/**  
Primary Patent Examiner  
Art Unit 2886